

-LEGEND-

INTRUSIVE ROCKS

- F** Felsic composition - rock type subscript (F_{Gr} - granite, F_{Qz} - quartz monzonite)
- I** Intermediate composition (I_{Gr} - diorite, I_{Mz} - monzonite, I_{Qz} - granodiorite, I_{Qz} - quartz diorite)
- M** Mafic composition - rock type subscript (M_{Di} - diorite, M_{Di} - gabbro, M_{Di} - diabase)
- Um** Ultramafic composition - rock type subscript (Um_{Py} - pyroxenite, Um_{Di} - diorite, Um_{Pl} - peridotite, Um_{Ch} - chromopyroxenite, Um_{Ch} - clinopyroxenite, Um_{St} - hornblende, Um_{St} - hornblende)
- D** Dikes: ND - basalt, AD - andesite, RD - rhyolite, APD - aplite, PD - felsic, DD - diabase, GDB - gabbro, PDB - pegmatite

VOLCANIC ROCKS

- R** Rhyolite
- RD** Rhyodacite - quartz latite
- D** Dacite
- L** Latite
- A** Andesite
- B** Basalt
- Qz** Quartz schallite

VOLCANIC FEATURES

- agl** agglomerate (dome > 32 m)
- lhr** lahar (mol flow)
- td** tuff breccia (> 32 m)
- lt** lapilli tuff (4 to 32 m)
- cgt** coarse-grained tuff (1.25 to 4 m)
- ast** ash flow tuff (fine-grained welded tuff)
- t** tuff
- lit** lithic tuff
- lit** lithic lapilli tuff
- ct** crystal tuff
- ccgt** coarse-grained crystal tuff
- f** flow
- fb** flow banded
- fbw** flow breccia
- pl** pillow
- ve** vesicular

MISCELLANEOUS ROCKS

- CS** Calc schist
- GP, GQR** Graphitic phyllite, quartz graphitic schist
- DQ** Dolomite quartz breccia
- CS** Gossan
- MS** Massive sulfide
- BR** Breccia
- VN** Qm - quartz vein; Cvm - calcite vein

METAMORPHIC ROCKS

Meta-Vol./Int./Sed. - mildly metamorphosed volcanic/intrusive/sedimentary rocks which have recognizable original texture

SLIGHTLY OR NON-FOLIATED METAMORPHIC ROCKS

- Am** amphibolite
- Ms** marble
- Qtz** quartzite
- ARG** argillite
- G** gneiss
- Agn** augen gneiss

SCHISTOSE METAMORPHIC ROCKS

- S** - schist; **P** - phyllite
- Labeled according to mineral composition abundance
- () indicates minor constituents
- Felsic composition** - dominantly quartz + sericite + feldspar
- Intermediate composition** - dominantly quartz + chlorite + feldspar + sericite
- Mafic composition** - dominantly chlorite + biotite + feldspar

MINERAL ABBREVIATIONS

- Q** Quartz
- S** Sericite
- F** Feldspar
- C** Chlorite
- Ca** Calcite
- M** Muscovite
- B** Biotite
- Ch** Chlorite
- Gt** Garnet
- Tc** Talc

ALTERATION

- arg** argillic
- prop** propylitic
- silic** silicification
- shv** shaly
- sk** skarn
- horn** hornfelsed
- tt** tectite

SEDIMENTARY ROCKS

- Sst** - siltstone, **Sh** - shale, **Mt** - mudstone
- Ss** - sandstone, **AR** - arenite, **QR** - quartz-rich sandstone (arenite), **AK** - arkosic sandstone (calciferous rich), **LAR** - lithic arenite, **CR** - calc arenite, **VAR** - volcanarenite

- CC** Conglomerate
- Grw** Graywacke
- Ch** Chert
- Ls** Limestone
- Dol** Dolomite
- Tst** - tuffaceous siltstone, **TAR** - tuffaceous arenite, **Stt** - silty tuff

CONTACTS

- Defined contact**
- Approximate contact**
- Assumed contact**

BEDDING

- Inclined**
- Vertical, horizontal**
- Overturned**

FLOW TOP

- Inclined**

FOLIATION

- Inclined**
- Vertical, horizontal**
- Lamination**
- Fold axis lineation**
- Faultenapiel**

FAULTS

- Inclined**
- Strike slip**
- Dip slip**
- Thrust fault**
- Anticline - antiform**
- Overturned anticline - antiform**
- Syncline - synform**
- Overturned syncline - synform**
- Strike and dip of joint, inclined**
- Strike and dip of vein, inclined**
- Strike and dip of dike, inclined**
- Strike and dip of dike, vertical**

See Clearwater Geology Map 1:24,000 Scale

